

L 20609-66

ACC NR: AP6010269

47.8 mg. Sapphire, the purest grade of aluminum, underwent only insignificant changes in microhardness and shear strength. However, its resistance to aggressive media increased considerably after 100 hr firing at 1200C, which is explained by a decrease in the dislocation density brought about by prolonged holding at 1200C. Orig. art. has: 5 figures and 2 tables. Q

[DV]

SUB CODE: 11/ SUBM DATE: 10Dec63/ ORIG REF: 007/ OTH REF: 002/ ATD PRESS: 4226

Card 2/2 *la*

ACC NR: AP7004394 (A) SOURCE CODE: UR/0226/67/000/001/0031/0036

AUTHOR: Savitskiy, K.V.; Grigor'yeva, V.V.; Kulikov, V.A.; Savitskiy, A.P.; Sergeyenkova, V.M.

ORG: Siberian Physicotechnical Institute im. V.D. Kuznetsov (Sibirskiy fiziko-technicheskiy institut)

TITLE: Investigation of the properties of extruded nickel-aluminum oxide alloy

SOURCE: Poroshkovaya metallurgiya, no. 1, 1967, 31-36

TOPIC TAGS: nickel alloy, ~~dispersion strengthened nickel alloy~~, aluminum oxide ~~containing alloy~~, ~~nickel alloy property~~ powder metal sintering, powder metal compaction, metal extrusion, grain growth, porosity

ABSTRACT:

A mixture of metallic nickel and various amounts of aluminum oxide powders (1-5%) was compacted under a pressure of 15 kg/cm<sup>2</sup> into billets 25 mm in diameter and 35 mm long. One group of billets was sintered in hydrogen atmosphere at 1000°C for 2-3 hr and extruded into bars 10 mm in diameter. Another group was sintered at 1300°C without subsequent extrusion. Specimens, 6.5 mm in diameter and 10.5 mm in length, cut from the billets, were annealed at 700°C for 2 hr. It was found that alloying with aluminum oxide

Card 1/2

UDC: none

ACC NR: AP7004394

prevents grain growth. Extruded specimens, however, had a finer grain and block structure and higher density than sintered billets. Sintered specimens containing 1% aluminum oxide retained up to 6% of their porosity, while the porosity of extruded specimens was practically nil. Alloying with aluminum oxide also increased the compression strength, particularly in the case of extruded alloys. For instance, the deformation pressure for 10% reduction of extruded powdered nickel specimens was 28 kg/mm<sup>2</sup>, that for sintered nickel alloy specimens (containing 3% Al<sub>2</sub>O<sub>3</sub>) was 43 kg/mm<sup>2</sup>, and that for extruded alloy specimens of the same composition was 54.5 kg/mm<sup>2</sup>. Orig. art. has: 2 figures and 3 tables. [TD]

SUB CODE: 11/ SUBM DATE: 04Aug66/ ORIG REF: 008/ OTH REF: 001  
ATD PRESS: 5116

Card 2/2

SAVITSKIY, L.M.

Checking the execution of projects for irrigation, drainage and  
utilization of improved land. Gidr.1 mel.8 no.8:41-43 Ag '56.  
(Land) (MLRA 9:9)

AUTHOR: Savitskiy, L.M., Agriculturist SOV/99-59-1-4/13

TITLE: On Necessary Measures for Fundamental Improvement of the Utilization of Agricultural Areas in the Non-Black Soil Zones of the USSR With Regular Precipitation (O neobkhodimykh merakh dlya korenogo uluchsheniya ispol'zovaniya zemel'nogo fonda v nechernozemnoy zone ustoychivogo uvlazhneniya SSSR)

PERIODICAL: Gidrotekhnika i melioratsiya, 1959, Nr 1, pp 26-29 (USSR)

ABSTRACT: The problem of melioration and its part in the development of the agriculture in the non-black soil zones of the USSR, was discussed at the joint conference of VASKhNIL and the Academy of Agricultural Sciences of the Belorussian SSR in July 1958. The importance of draining marshy and swampy areas was stressed at this conference. The slow progress made in drainage operations is demonstrated by the fact that only 2% of the swampy areas of the RSFSR

Card 1/2

SOV/99-59-1-4/13

On Necessary Measures for Fundamental Improvement of the Utilization of Agricultural Areas in the Non-Black Soil Zones of the USSR With Regular Precipitation

have been drained. Moreover, even the drained areas have not been utilized by the respective sovkhozes, kolkhozes, etc. The author proposes a series of measures to improve this state of affairs.

Card 2/2

SAVITSKIY, Leopol'd Mikhaylovich; FOKIN, D.P.; KLIMENTOVA, A.V.;  
OVCHINNIKOV, V.V.; VAINSHTEYN, I.S.; ZAPIVAKHIN, A.I., red.;  
PROKOF'YEVA, L.N., tekhn.red.

[Economic effectiveness of land improvement] Ekonomicheskaya  
effektivnost' melioratsii zemel'. Moskva, Gos.izd-vo sel'khoz.  
lit-ry, 1960. 143 p. (MIRA 13:10)  
(Reclamation of land)

SAVITSKIY, L.N.

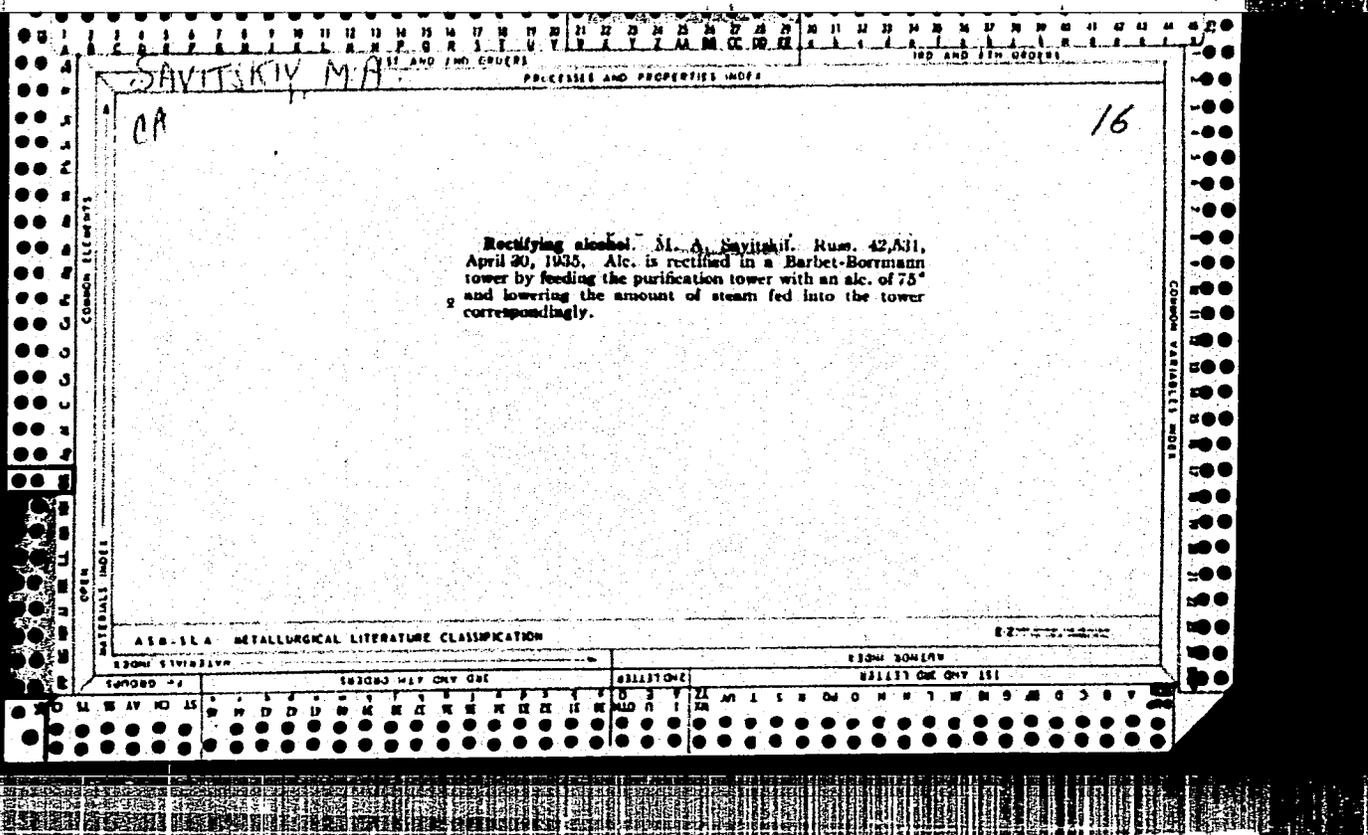
The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Gubkin, S.I. Moguchiy, L.N. <u>Savitskiy, L.N.</u> Zatulovskiy, M.I. Mikityuk, V.D. Chirkov, B.P. Inshennik, B.K.	"Deformability of Magnesium Alloys"	Institute of Metallurgy, Academy of Sciences USSR

SO: W-30604, 7 July 1954

SAVITSKIY, M., inzh.-konstruktor

It is interesting to know this. Kryl. rod. 15 no.9:28 S '64.  
(MIPA 18:1)



1ST AND 2ND ORDERS      PROCESSES AND PROPERTIES INDEX      3RD AND 4TH ORDERS

SAVITSKIY, M. A.      1

e A

Distillation apparatus. I. P. Bobrik and M. A. Savitskiy. U.S.S.R. 66,536, May 31, 1947. For distg. liquids without suspended particles, e.g. mash, a still-head is used consisting of concentric open vertical cylinders. The inner cylinders are filled with Raschig rings. M. Hoesch

Common Elements      Common Variants

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

151 AND 152 ORDERS

FERTMAN, G.I.; SAVITSKIY, M.A., retsenzent; IVANOV, L.I., spetsredaktor;  
KRUGLOVA, G.I., redaktor; CHEBYSHEVA, Ye.A., tekhnicheskiy redaktor

[Rectifying and beer rectifying apparatus] Rektifikatsionnyi i  
bragorektifikatsionnyi apparaty. Moskva, Pishchepromizdat, 1956.  
91 p. (MLRA 9:8)  
(Distillation apparatus)

SOFCLOV, Yu.D.; BONDARCHUK, O.S.; LAVRINENKO, P.P.; SAVITS'KIY, M.I.

"Course of theoretical mechanics" by H.M.Savin, M.I.Kil'chevskiy,  
and T.V.Putiata. Reviewed by IU. D.Sokolov and others. Prikl.  
mekh. 4 no. 2:234-236 '58. (MIRA 11:8)

(Mechanics--Textbooks)

(Savin, H.M.)

(Kil'chevskiy, M.I.)

(Putiata, T.V.)

SAVITSKIY, M.N., inzh.

Drilling and blasting operations at quarries. Put' i put. khoz.  
no.4:37-38 Ap '58. (MIRA 11:4)

1. Orlovo-Slobodskiy shchebenochnyy zavod, stantsiya Orlovo-Sloboda.  
(Quarries and quarrying) (Blasting) (Boring)

SAVITSKIY, M.N., inzh.

Modernization of the stone crushing plant sections. Put' 1  
put.khoz. 5 no.6:17 Je '61. (MIRA 14:8)

1. Stantsiya Turdey, Moskovskoy dorogi.  
(Stone, Crushed)

SAVITSKIY, M.N., inzh. (Stantsiya Turdey, Moskovskoy dorogi.)

Preparation of quarry stone. Put' 1 put.khoz. 5 no.8:42 Ag '61.  
(MIRA 14:10)  
(Quarries and quarrying)

SAVITSKIY, M.N.

Improving the technological flow sheets. Put' i put. khoz.  
8 no.7:23 '64. (MIRA 17:10)

1. Glavnyy inzh. Turdeyskogo shchebenochnogo zavoda, atantsiya  
Turdey, Moskovskoy dorogi.

11-1

Glass

Apparatus for the determination of the heat resistance of glasses. M. R. SAVITSKIĬ. *Leghaya Prom.*, 1 (5) 54-55 (1941); abstracted in *Chem. Zentr.*, 1943, II [7] 657.—The apparatus tests simultaneously a large number of glasses (tumblers, beakers, etc.) for their thermal resistance by automatically filling them with boiling water that falls from the same height, with the same velocity, and from the same direction. After cooling to 65°C. for blown glasses and 55° for pressed glasses, they are quenched in water at 20°.

M. HA

CA

19

Some criteria of the quality of window glass. M. R. Savitskiy. *Steklo i Keram.* 8, No. 5, 9-13(1961).— Results are given of a 3-day check of window glass at 5 representative glass works. Recommendations for proposed revision of specifications include decrease in the no. and size of air bubbles and foreign inclusions; a limited no. of air bubbles should be allowed; cords should be threadlike and not pass through the center of the sheet; and coarse scratches should be limited to edges. B. Z. Kamich

SAVITSKIY, M. R.

Journal of Applied Chemistry  
June 1954  
Industrial Inorganic Chemistry

Waviness of Russian three-layer safety glass. N. I. Amosov and M. R. Savitskii (*Steklo i Keramika*, 1952, 8, 14; *Glass Ind.*, 1954, 35, 104).—The "waviness" (greatest deviation in angular minutes of a transmitted light beam) of glass laminated with cellulose nitrate or vinyl butyral, varied from 2' to 10', with 88% of the batch within 3' to 6'.  
J. A. SUGDEN.

ME  
11:10:51

B. T. R.  
Vol. 3 No. 3  
March 1954  
Ceramics and  
Concrete.

29548 <sup>①</sup> Some Data on Quality of Window Glass. (Russian)  
M. R. Savitskii. *Steklo i Keramika*, v. 10, no. 7, July 1953, p.  
28-30.

Describes various parameters of tested glass. Tables

Savitskiy, M. R.

USSR / Chemical Technology. Chemical Products  
and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31504

Author : Savitskiy M. R.

Title : A New Window-Glass Standard -- An Important  
Stimulus to Enhancement of Its Quality

Orig Pub: Steklo i keramika, 1955, No 6, 28-31

Abstract: Description of the principal changes incorpor-  
ated in the new standard for window glass, which  
became effective on 1 January 1955. Norms of  
glass striation do no longer differentiate between  
area striation and border striation. Permissible  
is a striation which does not distort the image

Card 1/4

USSR /Chemical Technology. Chemical Products  
and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31504

of objects viewed through the glass at an angle of not less than 20° for 1-st grade, of 30° for 2-nd grade and 50° for 3-rd grade. Method of determination of striation is visual. Norm for blisters is set in direct proportion to the area of the sheet: one blister per 0.1 m<sup>2</sup> in 1-st and 2-nd grade, two in 3-rd grade. Permissible is the presence of "slits", blisters of limited dimensions in all grades of window glass: of up to 2 mm in 1-st grade, up to 4 mm in 2-nd grade - and up to 6 mm in 3-rd grade. The amount of permissible extraneous inclusions in the glass has been reduced by 1/3. The standard includes for the first time norms of light transmission, which,

Card 2/4

USSR /Chemical Technology. Chemical Products  
and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31504

depending on thickness of the glass, must be within the limits of 84-87%. The GOST specifies an objective, photometric method of determining the light transparency, with a radiation source of standard temperature 2854°K and a selenium photoelectric cell of spectral sensitivity approximating that of the human eye. The degree of annealing index has been abandoned as not characteristic of the quality of window glass and its behavior in use. The water stability test of glass has been abandoned and only the test for stability to alkali has been retained. Regulations relating to acceptance procedures have been

Card 3/4

USSR /Chemical Technology. Chemical Products  
and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31504

considerably simplified: to check a lot of up  
to 20 boxes, 1 box is selected, of up to 50  
boxes -- 2 boxes, of up to 200 boxes, 5% of the  
glass are taken. With lots of more than 100  
boxes, 3% are taken but at least from 10 boxes.

Card 4/4

SOV/28-58-6-16/34

AUTHORS: Savitskiy, M.R., Candidate of Technical Sciences,  
Bruk, I.M., Engineer

TITLE: A Device for the Determination of Optical Distortions in Sheet Glass (Pribor dlya opredeleniya opticheskikh iskazheniy listovogo stekla)

PERIODICAL: Standartizatsiya, 1958, Nr 6, pp 57-58 (USSR)

ABSTRACT: Unpolished glass produced by vertical stretching is of unequal thickness which causes optical distortions. If the line of vision is perpendicular to the surface of the glass, there is usually no, or only a slight, deviation. At sharp angles, the distortions become greater. The angle under which vision is still possible is the criterium for the optical quality of the glass. Devices for this determination did not exist. Now the Laboratory of Standardization of the State Institute of Glass has developed an apparatus (Figure 1) in which a diaphragm with

Card 1/2

AUTHORS: Savitskiy, M. R., Shlain, I. B. SOV/72-58-7-7/19

TITLE: On the Unification of the Standards for Types of Glass Sand (Ob unifikatsii norm na stekol'nyye peski)

PERIODICAL: Steklo i keramika, 1958, <sup>15</sup> Nr 7, pp. 25 - 27 (USSR)

ABSTRACT: At present, there are no generally adapted standards in the Soviet Union regulating the iron content and the content of other dyeing oxides in glass for construction and technical purposes, as well as in sand from which this glass is produced. A project of these standards worked out by a special commission at the Division of Technical Sciences of the AS USSR in 1937, must now considered obsolete. In order to improve the quality of the glass and to increase its transparency, the introduction of certain directions concerning the used types of glass is required. Since the natural types of glass of the major part of the deposits do not guarantee the production of high-quality glass, the glass-works since 1948, have passed successively over to the use of enriched types of glass. The methods of enrichment of the types of sand developed by the Glass Institute make it possible to reduce the iron oxide content to from 0,01 - 0,05%. According to the standards for the projection of glass works

Card 1/2

On the Unification of the Standards for Types of Glass SOV/12-58-1-7/19  
Sand

confirmed by the MPSM USSR in 1952, the  $Fe_2O_3$  content of window glass was fixed with 0,1% and that of technical glass with 0,05%. The best works for technical glass ("Avtosteklo" and "Proletariy") manufacture glass with an  $Fe_2O_3$  content of from 0,06 to 0,08%; they consequently use types of sand with an  $Fe_2O_3$  content of from 0,02 to 0,03%. Data on the  $Fe_2O_3$  content in glass of a series of works are shown (Table 1). Standards for the iron oxide content in sand fixed in some foreign countries are shown (Table 2). Data on the iron oxide content in the types of sand of the individual collecting localities after their enrichment are given (Table 3). It would thus be possible to readapt these types of sand in 70% of all glass works. The authors propose, for the manufacture of glass for building and technical purposes, to regulate only the iron oxide content, viz. 0,03% for types of sand of 1st order and 0,05% for the second order. There are 3 tables.

1. Glass--Standards
2. Glass--Production
3. Sand--Applications
4. Glass--Quality control

Card 2/2

15 (2)

AUTHORS: Savitskiy, M. R., Berezhkovskaya, M. I. SOV/72-59-9-13/16

TITLE: Foreign Standards for Window Glass

PERIODICAL: Steklo i keramika, 1959, Nr 9, pp 44 - 45 (USSR)

ABSTRACT: The standards of the following countries are mentioned in the paper under review: USA (Table 1), England (Table 2), German Federal Republic (Table 3), Austria (Table 4), Czechoslovakia, and Portugal (Table 5). The standardized dimensions and types of window- and plate glass of each country are mentioned, as well as the type of packing. There are 5 tables.

Card 1/1

BREKHOVSKIKH, S.M.; SAVITSKIY, M.R.

Reviewing the standard for window glass. Stek. i ker. 18 no.6:  
7-8 Je '61. (MIRA 14:7)

(Glass--Standards)

AMOSOV, N.I.; SAVITSKIY, M.B.

Checking dimensions and the shape of plate glass.  
Standartizatsiia 25 no.6:45-47 Je '61. (MIRA 14:6)  
(Plate glass--Measurement)

AMOSOV, N.I.; SAVITSKIY, M.R.

Classification of glass products. Stek. i ker. 19 no.6:14-17  
Je '62. (MIRA 15:7)

(Glass--Classification)

AMOSOV, N.I.; SAVITSKIY, M.R.

Measuring the obliquity of shopwindow glasses. Standartizatsiia  
26 no.7:33-34 JI '62. (MIRA 15:7)  
(Windows)

AMOSOV, N.I.; SAVITSKIY, M.R.

Specifications of the translucence of sheet glass in  
standards. Standartizatsiia 28 no.1:30-31 Ja '64.  
(MIRA 17:1)

BIL'TYUKOVA, E.P., inzh.; KOLBASNIKOVA, A.I., kand.tekhn.nauk; SAVITSKIY, M.R.,  
kand.tekhn.nauk

Conference of workers of the department of technical control and  
factory laboratories in the manufacture of structural and technical  
glass. Stek. i ker. 22 no.3:47 Mr '65.

(MIRA 18:10)

SAVITSKIY, M.S.  
AFANAS'YEVA, A.L., kand.biol.nauk; BAYERTUYEV, A.A., kand.sel'skokhozyaystvennykh nauk; BAL'CHUGOV, A.V., kand.sel'skokhozyaystvennykh nauk; BELOZEROVA, N.A., agronom; BELOZOROV, A.T., kand.sel'skokhozyaystvennykh nauk; MAKSIMENKO, V.P., agronom; BERNIKOV, V.V., doktor sel'skokhozyaystvennykh nauk; BOGOMYAGKOV, S.T., kand.sel'skokhozyaystvennykh nauk; VOLYNETS, O.S., agronom; BODROV, M.S., kand.sel'skokhozyaystvennykh nauk; BOGOSIAVSKIY, V.P., kand.tekhn.nauk; KHRUPPA, I.F., kand.tekhn.nauk; VERNER, A.R., doktor biol.nauk; VOZBUTSKAYA, A.Ye., kand.sel'skokhozyaystvennykh nauk; VOINOV, P.A., kand.sel'skokhozyaystvennykh nauk; VYSOKOS, G.P., kand.biol.nauk; GALDIN, M.V., inzhener-mekhanik; GERASIMOV, S.A., kand.tekhn.nauk; GORSHENIN, K.P., doktor sel'skokhozyaystvennykh nauk; YELENEV, A.V., inzhener-mekhanik; GERASKEVICH, S.V., mekhanik [deceased]; ZHARIKOVA, L.D., kand.sel'skokhozyaystvennykh nauk; ZHEGALOV, I.S., kand.tekhn.nauk; ZIMINA, Ye.A., agronom; BARANOV, V.V., kand.tekhn.nauk; PAVLOV, V.D.; IVANOV, V.K., kand.sel'skokhozyaystvennykh nauk; KAPLAN, S.M., kand.sel'skokhozyaystvennykh nauk; KATIN-YARTSEV, L.V., kand.sel'skokhozyaystvennykh nauk; KOPYRIN, V.I., doktor sel'skokhozyaystvennykh nauk; KOCHERGIN, A.Ye., kand.sel'skokhozyaystvennykh nauk; KOZHEVNIKOV, A.R., kand.sel'skokhozyaystvennykh nauk; KUZNETSOV, I.N., kand.sel'skokhozyaystvennykh nauk; LAMBIN, A.Z., doktor biol.nauk; LEONT'YEV, S.I., kand.sel'skokhozyaystvennykh nauk; MAYBORODA, N.M., kand.sel'skokhozyaystvennykh nauk; MAKAROVA, G.I., kand.sel'skokhozyaystvennykh nauk; MEL'NIKOV, G.A., inzhener; ZHDANOV, B.A., kand.sel'skokhozyaystvennykh nauk; MIKHAYLENKO, M.A., kand.sel'skokhozyaystvennykh nauk; MAGILEVTSEVA, N.A., kand.sel'skokhozyaystvennykh nauk;

(Continued on next card)

AFANAS'YEVA, A.L.... (continued) Card 2.

NIKIFOROV, P.Ye., kand.sel'skokhozyaystvennykh nauk; MENASHEV, N.I.,  
lesovod; PERVUSHINA, A.N., agronom; PLOTNIKOV, N.A., kand.biol.nauk;  
L.G.; kand.sel'skokhozyaystvennykh nauk; PAVLOV, V.D., kand.tekhn.  
nauk; PRUTSKOVA, M.G., kand.sel'skokhozyaystvennykh nauk; GURCHENKO,  
V.S., agronom; POPOVA, G.I., kand. sel'skokhozyaystvennykh nauk;  
PORTYANKO, A.F., agronom; RUGHKIN, V.N., prof.; RUSHKOVSKIY, T.V.,  
agronom; SAVITSKIY, M.S., kand.sel'skokhozyaystvennykh nauk; BOLDIN,  
D.T., agronom; NESTEROVA, A.V., agronom; SERAFIMOVICH, L.B., kand.  
tekhn.nauk; SMIRNOV, I.N., kand.sel'skokhozyaystvennykh nauk;  
SEREBRYANSKAYA, P.I., kand.tekhn.nauk; TOKHTUYEV, A.V., kand. sel'sko-  
khozyaystvennykh nauk; FAL'KO, O.S., iznh.; FEDYUSHIN, A.V., doktor  
biol.nauk; SHEVLYAGIN, A.I., kand.sel'skokhozyaystvennykh nauk;  
YUFEROV, V.A., kand.sel'skokhozyaystvennykh nauk; YAKHTENFEL'D, P.A.,  
kand.sel'skokhozyaystvennykh nauk; SEMENOVSKIY, A.A., red.; GOR'KOVA,  
Z.D., tekhn.red.

[Handbook for Siberian agriculturists] Spravochnaia kniga agronoma  
Sibiri. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol.1. 1957. 964 p.  
(Siberia--Agriculture) (MIRA 11:2)

SAVITSKIY, M. S.: Doc Agric Sci (diss) -- "The biological principles of a method of determining norms for sowing wheat in the USSR". Moscow, 1958. 47 pp (Moscow Order of Lenin Agric Acad im K. A. Timiryazev), 150 copies (KL, No 6, 1959, 137)

SAVITSKIY, M.S., kand. sel'skokhozyaystvennykh nauk

Method for determining and checking seeding rates in agriculture.  
Zemledelie 6 no.4:55-59 Ap '58. (MIRA 11:4)  
(Sowing)

SAVITSKIY, M.S., kand.sel'skokhoz.nauk; CHERNIKOVA, L.K.; ZHUKOVSKIY,  
P.M., akademik, otv.red.; MARINICH, P.Ye., otv.red.; GRIGOR'YEVA,  
A.I., red.; TETUYEVA, I.V., red.; GOR'KOVA, Z.D., tekhn.red.

[Manual on field testing of crops; new regionally certified  
varieties of grain, pulse crops for groats, oilseed and forage  
crops] Rukovodstvo po sprobatsii sel'skokhoziaistvennykh kul'tur;  
novye raionirovannye sorta zernovykh, krupianyykh zernobobovykh,  
maslichnykh i kormovykh kul'tur. Moskva, Gos.izd-vo sel'khoz.  
lit-ry, 1960. 411 p. (MIRA 13:11)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta  
rasteniyevodstva (for Zhukovskiy). 2. Zamestitel' predsedatelya  
Gosudarstvennoy komissii po sortoispytaniyu sel'skokhozyaystvennykh  
kul'tur (for Marinich).  
(Field crops--Varieties)

SAVITSKIY, M. S.

Doc Agr Sci - (diss) "Biological bases of methods of determining wheat sowing norms in the USSR." Moscow, 1961. 44 pp; (Moscow Order of Lenin Agricultural Academy imeni K. A. Timiryazev); 200 copies; price not given; list of author's works at end of text (12 entries); (KL, 5-61 sup, 196)

SAVITSKIY, M.S., kand. sel'skokhozyaystvennykh nauk

Use correct seeding rates for **grain** crops. Zemledelie 23 no.3:22-30  
Mr '61. (MIRA 14:3)

(Grain)

SAVITSKIY, M. L.

"A New Set of in the Struggle Against the Absorption of Clay  
Solutions During the Drilling of Structural Prospecting Shafts,"  
Nauka i Otkrytiya Nedr, No. 3, pp 56-57, 1954

SC: W-31-29, 2 sep 55

BOBRIK, I.P.; SAVITSKIY, M.Ya.

Rectification column. Patent U.S.S.R. 77,317, Dec. 31, 1949.  
(Cl 47 no.19:9681 '53)

GOFMAN, I.P.; MURZENKO, T.I., *otv. za vyp.*; SAVITSKIY, N.F., *otv. za vyp.*; RAZUMOVSKIY, N.N., *red.*

[Visual demonstration in teaching a class on the topic "Production of ferrous and nonferrous metals" in the course "Technology of metals and structural materials"] Nagliadnost' v prepodavanii razdela "Proizvodstvo chernykh i tsvetnykh metallor" kursa "Tekhnologiya metallov i konstruktsionnye materialy"; metodicheskoe posobie dlia prepodavatelei tekhnikumov. n.p. Rosvuzizdat, 1962. 21 p. (MIRA 16:7)

1. Russia (1917- R.S.F.S.R.) Uchebno-metodicheskii kabinet po srednemu spetsial'nomu obrazovaniiyu.  
(Metallurgy--Study and teaching)  
(Visual education)

USHATIN, V.S.; SAVITSKIY, N.F., red.; NOGOVITSYN, V.N., red.

[Use of a slide rule in the calculation of a.c. networks;  
methodological manual for students of technical institutions]  
Primenenie logarifmicheskoi lineiki pri raschete elektriche-  
skikh tsepei peremennogo toka; uchebno-metodicheskoe posobie  
dlia uchashchikhsia tekhnikumov. n.p. Rosvuzizdat, 1963. 14 p.  
(MIRA 17:4)

SAVITSKIY, N. I.

Distribution of stresses in case of beam deflection based on the nonlinear relation between stresses and deformations which is characteristic for cast iron. Nauch. trudy Inst. mash. i sel'khoz. mekh. AN SSSR 3:51-94 '51. (MLRA 10:8)  
(Cast iron) (Flexure) (Strains and stresses)

KABAL'SKIY, Mikhail Mikhaylovich; KRIVOSHEY, Veniamin Davidovich; SA-  
VITSKIY, Nikolay Ioilevich; CHAYKOVSKIY, Gleb Nikolayevich;  
VARVAKA, P.M., professor, doktor tekhnicheskikh nauk, redaktor;  
KASPERSKAYA, Ye., redaktor; BONDARENKO, O., redaktor; VUYEK, M.,  
tekhnicheskiiy redaktor

[Typical problems in theoretical mechanics and methods of solving them] Tipovye zadachi po teoreticheskoi mekhanike i metody ikh resheniia. Kiev, Gos.izd-vo tekhn.lit-ry USSR, 1956. 511 p.  
(Mechanics--Problems, exercises, etc.) (MLRA 9:3)

SAVITSKIY, N.L.

Free extraction of casing from wells. Razved. i ekh.nedr.20  
no.6:58-59 N-D '54. (MIRA 9:2)  
(Oil well drilling)

SAVITSKII, N. K.

Pathology and therapy of poisonous war gas traumas. Moskva, Medriz, 1959. 287 p. (49-34208)

RA1245.S26

SAVITSKIY, N. N. Prof.

PA 31/49T15

USSR/Medicine - Blood Pressure, Determination Sep 48  
Medicine - Polycythemia Hypertonica

"Physical Aspects of Destruction of Hemodynamics Due to Hypertonia," Prof N. N. Savitskiy, Chair of Propaedeutics of Internal Diseases, Mil Med Acad imeni S. M. Kirov, 10 pp

"Klin Med" Vol XXVI, No 9

Describes special method of obtaining oscillographic record of blood pressure. Presents results of observations on 47 hypertonic cases. Concludes that one of main pathogenetic factors in all types of hypertonia is impairment of blood supply to tissues and, primarily, destructive of their oxygen supply.

31/49T15

27937. SAVITSKIY. N. N. -- O kardio-pul'monal'noy nedostatochnosti. Trudy  
XIII Vsesoyuz. S"yezda terapevtov. L., 1949, S. 284-87.

SO: Letopis' Zhurnal'nykh Statey. Vol. 37, 1949.

SAVITSKIY, N. N. Prof

PA 59/49T43

USSR/Medicine - Literature May/June 49  
Medicine - Oxygen Deficiency

"Review of Kh. I. Vaynshteyn's Book, 'Oxygen Deficiency and Oxygen Therapy,'" Prof N. N. Savitskiy, Hon Sci, Gen Maj, Med Corps, Prof Tregubov, Col, Med Corps, 2 1/2 pp

"Terap Arkhiv" Vol XXI, No 3

Reviews Prof Vaynshteyn's monography, which casts some light on clinical problems relevant to oxygen deficiencies and oxygen therapy. Its value, however, is impaired in that it contains numerous errors in stylistic arrangement, and especially inaccurate treatment of the problem.

59/49T43

SAVITSKIY, N. N.

USSR/Medicine - Toxicology

Mar/Apr 53

Review of: 1. "Intoxications and First Aid in Cases of Intoxications," G. I. Glazova, 2d ed, Medgiz, 1952. 2. "First Aid in Acute Intoxications," Prof M. P. Nikolayev, Chapter 24 of "Terapev Spravochnik," 5th ed, Medgiz, 1952. 3. "First Aid in Industrial Intoxications," Prof N. N. Savitskiy (ed), Medgiz, 1952 (V. M. Karasik, reviewer)

Farm i Toks, Vol 16, No 2, pp 50-53

In connection with the publication of the three books mentioned, Karasik discusses extensively various questions of practical toxicology, particularly the use of antidotes. Refers to dithiopropanol and other sulfhydryl compds as effective antidotes for arsenic or mercury poisoning. Disagrees with Glazova's recommendation that pilocarpine be used as an antidote for atropine, saying that pilocarpine and related substances block nerve impulses, just as atropine does. Criticizes Glazova's recommendation that methylene blue be used as an antidote in carbon monoxide poisoning and states that anoxemia will be increased by this treatment. Refers to Glazova's book as based on published data that are of questionable value, but reviews the other two books in a rather favorable light,

Pa 254T25

SAVITSKIY, N.N. (Moscow).

Hydatidiform mole. Fel'd.i akush. no.4:29-33 Ap '54. (MLRA 7:4)  
(Chorion--Tumors)

SAVITSKIY, N.N.

[Methods for the study and functional evaluation of the blood  
circulatory system] Nekotorye metody issledovaniia i funktsional'-  
noy otsenki sistemy krovoobrashcheniia. [Leningrad] Medgiz, 1956.  
325 p. (MIRA 10:5)

(BLOOD--CIRULATION)

SAVITSKIY, N.N.)

SAVITSKIY, N.N., prof., general-mayor meditsinskoy sluzhby

Certain considerations on problems discussed in S.A.Savvaitov's  
article "Nomenclature of so-called cardiovascular neuroses and  
diagnosis of neurocirculatory dystonia of the hypertensive type."  
Voen.-med.zhur. no.8:40-43 Ag '57. (MIRA 10:12)  
(NEUROCIRCULATORY ASTHENIA,  
classif. (Rus))

SAVITSKIY, N.N., prof. (Leningrad)

Some clinical forms of allergy. Vest. AMN SSSR 13 no.12:21-26 '58.  
(MIRA 12:1)

1. Deystvitel'nyy chlen AMN SSSR.  
(ALLERGY, case reports  
(RUS)

SAVITSKIY, N.N., professor

Present status of the problem of determining the contractile function of the myocardium by electrocardiography. Voen.-med. zhur. no.2:15-23 F '60. (MIRA 13:5)

1. General-mayor meditsinskoy sluzhby, deystvitel'nyy chlen AMN SSSR.

(ELECTROCARDIOGRAPHY)  
(MYOCARDIUM physiol.)

SAVITSKIY, N.N., prof.

Some problems in the pathogenesis and treatment of chronic circulatory insufficiency. Vest.AMN SSSR 15 no.6:16-30 '60. (MIRA 14:4)

1. Deystvitel'nyy chlen AMN SSSR.  
(BLOOD, CIRCULATION, DISORDERS OF)

SAVITSKIY, N.N., prof.

"Studies on the clinical physiology of the blood circulation"  
by V.V. Parin, F.Z. Meerson. Reviewed by N.N. Savitskii.  
Kardiologia 1 no.3:86-87 My-Je '61. (MIRA 15:3)

1. Deystvitel'nyy chlen AMN SSSR.  
(BLOOD—CIRCULATION)  
(PARIN, V.V.) (MEERSON, F.Z.)

SAVITSKIY, N.N. (Leningrad)

Review of the articles in the collection, "Symposium on congestive heart failure." Fiziol. zhur. 47 no.7:930-933 J1 '61. (MIRA 15:1)  
(HEART FAILURE)

VOLYNSKIY, Z.M., prof.; GILYAREVSKIY, S.A., prof.;  
GEFTER, A.I., prof.; DEMIN, A.A., prof.; ZELENIN, V.F., prof.;  
ISTAMANOVA, T.S., prof.; KEDROV, A.A., prof.; MESHALKIN, Ye.N.,  
prof.; KEDROV, A.A., prof.; MESHALKIN, Ye.N., prof.; SAVITSKIY,  
N.N., prof.; FOGEL'SON, L.I., prof.; KHVILIVITSKAYA, M.I., prof.;  
LUKOMSKIY, P.Ye., prof., red. toma; MYASNIKOV, A.L., prof., otv.  
red.; TAREYEV, Ye.M., prof., zam. otv. red.; BAGDASAROV, A.A.,  
prof.[deceased], red.; BARANOV, V.G., prof., red.; VOVSI, M.S.,  
prof., red.[deceased]; IVANOV, V.N., prof., red.[deceased];  
KURSHAKOV, N.A., prof., red.; MOLCHANOV, N.S., prof., red.;  
NESTEROV, A.N., prof., red.; SPERANSKIY, I.I., prof., red.  
[deceased]; ZAMYSLOVA, K.N., prof., red.; PERCHIKOVA, G.Ye.,  
kand. med. nauk, red.; ERINA, Ye.V., kand. med. nauk, red.;  
LYUDKOVSKAYA, Yu.S., tekhn. red.; BEL'CHIKOVA, Yu.S., tekhn.red.

[Multivolume manual on internal diseases]Mnogotomnoe rukovodstvo  
po vnutrennim bolezniam. Otv. red. A.L.Miasnikov. Moskva,  
Medgiz. Vol.1. [Diseases of the cardiovascular system]Bolezni  
serdechno-sosudistoi sistemy. Red. toma: P.E.Lukomskii i N.N.  
Savitskii. 1962. 686 p. (MIRA 15:12)

(Continued on next card)

SAVITSKIY, N.M.

Hemorrhages in the placental and early puerperal period following late toxemias of pregnancy. Sov. med. 23 no.9:76-80 5 '65.

(MIRA 18:9)

1. Kafedra akusherstva i ginekologii (zav. - prof. K.B. Zhurkin)  
I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

SAVITSKIY, P.

Stars with great proper motion in the region of the galactic cluster NGC  
7654. Astron. tsir. no. 134:8-9 F '53. (MLRA 6:6)

1. Tashkentskaya Astronomicheskaya Observatoriya. (Stars ~~→~~ Proper motions)

SAVITSKIY, P.A.

Scattered star cluster NGC 7654 (M52). Astron. tsir. no. 136:16-18 Nr '53.  
(MLRA 6:6)

1. Tashkentskaya Astronomicheskaya Observatoriya, Kafedra Astronomii Mo-  
skovskogo Gosudarstvennogo Pedagogicheskogo Instituta. (Stars--Clusters)

SAVITSKIY, P.A.

Investigating proper motions of stars in the region of galactic  
cluster NGC 7654 (M-52). Trudy Tashk.astron.obser.Ser.2  
4:3-52 '54. (MIRA 13:4)  
(Stars--Proper motion)

SAVITSKIY, P.

Stars with great proper motion in the region of galactic cluster  
NGC 6705. Astron. tsir. no. 159:13-14 My'55. (MIRA 8:12)

1. Tashkentskaya astronomicheskaya observatoriya. 2. Kafedra  
astronomii MGPI

(Stars--Proper motion)

SAVITSKIY, P.

Group motion of stars. Astron. tsirk. no. 174:13-14 N '56.

(MIRA 10:3)

1. Kafedra Astronomii Moskovskogo gosudarstvennogo pedagogicheskogo instituta. (Stars--Proper motion)

SAVITSKIY, P.A.

Regularities in galactic open clusters. Astron.tsir. no.193:19-  
21 Jy '58. (MIRA 12:1)

1. Kafedra astronomii Moskovskogo gosudarstvennogo pedagogicheskogo  
instituta im. V.I.Lenina.  
(Stars--Clusters)

SAVITSKIY, P.A.

Proper motions of stars in the galactic cluster NGC 6705 and  
the adjacent region. Uch. zap. MGPI no.189:3-77 '62.

(MIRA 16:6)

(Stars--Proper motion)

14-57-6-12967

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,  
p 164 (USSR)

AUTHOR: Savitskiy, Petr N.

TITLE: Agricultural Geography of the Soviet Union's Sixth  
Five Year Plan (Sel'skokhozyaystvennaya geografiya  
shestay pyatiletki Sovetskogo Soyuza)

PERIODICAL: Za sots. s-kh. nauku, (Fraga), 1956, Bulletin 5, Nr 3,  
pp 209-228

ABSTRACT: This work analyzes information on agricultural develop-  
ment and its geography, which has appeared in Soviet  
publications. Of 33 million hectares under cultivation  
in 1954-55, 18 million hectares of virgin soil were  
brought under cultivation in Kazakhstan. A total of  
337 new state grain farms were organized there. Areas  
under cereal cultivation in Kazakhstan will be  
increased during the sixth five year plan. These years

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14-57-6-12967

Agricultural Geography of the Soviet Union's (Cont.)

saw more than 14 million hectares of virgin and waste land placed under cultivation in the RSFSR (Russian Socialist Federative Soviet Republic); most of this work took place in Siberia, the Southern Urals, and the lower Volga regions. The author gives the text of the directives issued by the 20th Congress of the Communist Party of the Soviet Union, concerning production goals in grain, barley, potatoes, cotton, flax, sugar beets and fruits. From 1953 to 1955 cattle production in the USSR increased as follows (in million heads): large horned cattle from 63 to 67, pigs from 47.6 to 52.1, sheep from 114.9 to 124.9. Corn growing areas increased from 4.4 million hectares in 1954 to 13 million hectares in 1955.

Card 2/2

O. A. K.

SAVITSKIY, P.N.

Discussion on conducting the placental period. Akush.i gin. no.2:  
62-65 Mr-Ap '54. (MIRA 7:6)

1. Iz 2-y rayonnoy bol'nitsy Kaganovichskogo rayona Kiyeva.  
(Labor (Obstetrics))

EXCERPTA MEDICA Sec 10 Vol. 11/2 Obstetrics Feb 58

242. INDUCTION OF LABOUR AND SIMULTANEOUS PROPHYLAXIS OF INTRA-UTERINE ASPHYXIA OF THE FOETUS IN ATONY OF LABOUR FORCES (Russian text) Sawitsky P. N. AKUS. I GINEK. 1957, 4 (21-24)

The method consists of an i. v. injection of 1-2 ml. of pituitrin dissolved in 300 ml. of a 5% glucose solution, one ml. of a 10% solution of cardiazole and 10 ml. of a 10% solution of bromide. Periodical administration of oxygen for 5 min. with interruption of 10 min. should be performed also. The i. v. injection is carried out by the drop system, starting with 12-18 drops per min. This method gave positive results in 94.1% of cases out of 170 labours complicated by atony and premature or early escape of the amniotic fluid. Labour with primary weakness of contractions started on the average after 3 hr. and 6 min. with secondary weakness after 57 min. Caesarean sections were performed in 7% of cases. Signs of intra-uterine asphyxia of the foetus prior to treatment have been noted in 18.2% of labours, babies born asphyctic - 8.8%; stillborn - 1.1%; morbidity of the newborn - 1.7%; mortality of the newborn - 0.6%. Bloodloss in the 3rd stage of labour averaged 174 ml. The above-mentioned method is especially indicated in labours where other methods proved unsuccessful.

SAVITSKIY, P.N. [Savyts'kyi, P.N.]; BULAVINA, A.P.

Treating erosion of the cervix uteri. Ped., akush. i gin. 19 no.1:  
46-47 '57. (MIRA 13:1)

1. Akushersko-ginekologicheskoye otdeleniye (zav. - P.P. Savitskiy)  
klinicheskoy bol'nitsy im. Kalinina v Kiyeva (glavnyy vrach - V.O.  
Udintseva) i kafedra akusherstva i ginekologii (zav. - prof. V.M.  
Khmelevskiy) Kiyevskogo instituta usovershenstvovaniya vrachey (di-  
rektor - prof. I.I. Kal'chenko).

(UTERUS--DISEASES)

SAVITSKIY, P.M. [Savyts'kyi, P.M.], assistant

Method for the continuing prevention of intrauterine asphyxiation  
of the fetus in cases of uterine inertia. Ped., akush. i gin. 19  
no.2:54-58 '57. (MIRA 13:1)

1. Kafedra akusherstva i ginekologii (zav. - prof. V.M. Khmelevskiy)  
Kiyevskogo instituta usoverhenstvovaniya vrachey (dir. - prof. I.I.  
Kal'chenko).

(ASPHYXIA)

SAVITSKIY, P.N., assistant

Method for inducing labor with simultaneous prevention of intra-uterine fetal asphyxia. Akush.i gin. no.5:43-48 '61. (MIRA 15:1)

1. Iz kafedry akusherstva i ginekologii I (zav. - prof. V.N. Savitskiy) Kiyevskogo instituta usovershenstvovaniya vrachey (dir. - dotsent M.N. Umovist).  
(ASPHYXIA) (LABOR (OBSTETRICS))

SAVITSKIY, P. N.

Cand Med Sci - (diss) "Regulation of the contraction function of the uterus given single-application prophylactic intra-uterus asphyxia of the fetus in asthenia of the birthing activity."  
Odessa, 1961. 19 pp; (Odessa State Med Inst imeni N. I. Pirogov);  
300 copies; price not given; (KL, 10-61 sup, 226)

SAVITSKIY, P. inzh.

With the help of radio and telephone. Grazhd.av. 17 no.1:19  
Ja '60. (MIRA 13:5)

(Radio in aeronautics)  
(Aeronautics in agriculture)

SAVITSKIY, P.

AUTHORS: Savitskiy, P., Finkel', E., Serenko, V., Bulatova, N. 89-1-19/29

TITLE: The Use of Radioactive Isotopes for Scientific Research (Primeneniye radioaktivnykh izotopov v nauchnykh issledovaniyakh)

PERIODICAL: Atomnaya Energiya, 1958, Vol. 4, Nr 1, pp. 92 - 96 (USSR)

ABSTRACT: From September 9, to September 20, 1957 a Congress was convened by the UNESCO, which dealt with the use of radioactive isotopes. A total of 39 sessions took place, at which 206 lectures were delivered. Of these lectures 49 were delivered by representatives from the USSR, 38 by representatives of France, 31 by such from the USA, and 29 by representatives from Great Britain. The following lectures deserve special mention:

Physics:  
Formation of long-lived  $Al^{26}$  from  $Mg^{25}(d,n)$  and  $Mg^{26}(p,n)$   
Production of the short-lived isotopes  $Mg^{28}$ ,  $I^{132}$ ,  $I^{133}$ ,  $F^{18}$   
Production of  $Cs^{137}$ : (Great Britain)-from phosphorous tungsten acid as a phosphate,  
(USSR) - from ferrocyanide as a chloride.

A new electromagnetic method for the separation of  $\alpha, \beta$ , and  $\gamma$  active isotopes.

Metal Industry:  
Investigation of diffusion phenomena.  
Investigation of the transmission of electricity in "solid"

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liquids.

The use of Cr<sup>51</sup> as a proof for the stability of inert metal coverings.

The measuring of the interspaces between the rotor and the stator of high pressure steam turbines with Ir<sup>192</sup>.

The influence exercised by irradiation upon semiconductors.

Investigation of the velocity of corrosion in solids at high temperatures. The measuring of cation mobility in a mixture of molten oxides.

Analytical and Physical Chemistry:

Chromatography in ion exchangers.

Investigation of catalytic processes.

Investigation of the construction and the properties of heteropoly-compounds.

Explanation of platinum-sublimation phenomena.

The sulphurization of metallic surfaces.

Determination of the thickness, nature, and physical-chemical properties of extremely thin coating applied to glass.

Dosimetry:

Determination of the sum dose with end-point colors.

The use of phenol solutions and trichlorethylene for the dosimetry of  $\gamma$ -rays and neutrons.

Geophysics:

Determination of the S<sup>32</sup>/S<sup>34</sup> content of meteorites and of the earth.

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Biology:

Investigation of the albumen exchange, of nuclei acids and glucogen in various functional states of the brain.

Investigation of the course taken by ferments.

A device for the exact determination of the introduction of a radioactive substance into hypophysis.

Investigations of photo-synthesis.

The behaviour of the fission products in earth, in plants, and in living beings.

Determination of the lethal effect if  $Sr^{90}$  is administered to young monkeys: if a dose of  $18 \mu\mu C$   $Sr^{90}$  / 1 g Ca is present in the bones of the monkey, the monkey dies within 3 years.

AVAILABLE:

Library of Congress

Card 3/3

AUTHORS: Topchiyev, A. V., Alad'yev, I. T., SOV/89-5-3-13/15  
Savitskiy, P. S.

TITLE: The Use of Radioactive Isotopes in the USSR (Primeneniye radioaktivnykh izotopov v SSSR)

PERIODICAL: Atomnaya energiya, 1958, Vol. 5, Nr 3, pp. 321-334 (USSR)

ABSTRACT: On the basis of 75 Soviet references the most important fields are mentioned in which radioactive isotopes can be used. They are:

- 1) Polymerization
  - a) Radiolysis of polymers
  - b) Oxidation of hydrocarbons
  - c) Halogenation
  - d) Cracking of hydrocarbons
- 2) Catalytic processes
- 3) Hardening of metals
- 4) Conservation of food
  - a) Storage of cereals
  - b) Storage of potatoes
  - c) Production of natural silk
- 5) Production of ergosterol

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The Use of Radioactive Isotopes in the USSR

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- 6) The use of radioactive isotopes for the investigation, checking, and control of processes
  - a) Black metal industry
  - b) Oil-prospecting
  - c) Chemical analysis
  - d) Flotation
- 7) Biochemistry and physiology of plants
- 8) Biochemistry of animals
- 9) General biology

At present more than 90 radioactive isotopes, 170 stable isotopes, and more than 360 "marked" preparations are being produced in the USSR.

In 1958 production will include

Co <sup>60</sup>	190 000	Au <sup>198</sup>	1 000
C <sup>14</sup>	200	Ir <sup>192</sup>	800
P <sup>32</sup>	1 100	Cr <sup>51</sup>	1 500
S <sup>35</sup>	900	Tu <sup>170</sup>	700
I <sup>131</sup>	1 200		

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There are 75 references, 75 of which are Soviet.

SOV/25-58-12-8/40

AUTHORS: Topchiyev, A.V., Academician, Vice-President of the USSR Academy of Sciences; Alad'yev, I.T., Candidate of Technical Sciences, and Savitskiy, P. S., Chief of the Administration for the Manufacture and Utilization of Isotopes

TITLE: The Use of Radioactive Isotopes in the USSR (Primeneniye radioaktivnykh izotopov v SSSR)

PERIODICAL: Nauka i zhizn', 1958, <sup>25</sup> Nr 12, pp 17-22 (USSR)

ABSTRACT: The authors examine the various possibilities for the use of radioactive isotopes. The reactions resulting from these treatments of processes and materials have been called radiation-chemical changes. According to their nature, the processes are divided into 2 groups: power consuming - with yields of 10 molecules per 100 electron (ev), and highly effective, which proceed with a high yield (10-10<sup>6</sup> molecules per 100 ev) requiring energy only

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The Use of Radioactive Isotopes in the USSR SOV/25-58-12-8/40

for starting the reaction. At the present time, processes of the second group have been studied more closely, such as processes of polymerization, oxydation of organic compounds, halogenation, cracking and processes occurring under the influence of radiation in polymers. Extensive research conducted in the USSR and abroad has showed that processes of radiation polymerization have been realized with yields of 1,000 and more polymerized molecules of the monomer for each 100 ev of energy. As a practical example, the production of polyethylene by gamma radiation is mentioned. Of great importance are considered the activation of catalytical processes and the changing of the structure and mechanical properties of metals by radiation is of great importance. Radioactive isotopes are now being widely used for research purposes, for controlling and regulating processes in the ferrous industry, in prospecting for oil, in chemical analysis, and in the field of construction. The

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use of radioactive isotopes offer new prospects for applying automatic control and regulation of industrial processes. As a result of scientific-research conducted in more than 50 Soviet institutions, more than 4,000 devices have been designed and constructed. Among these are the defectoscopes "GUP-So-50", "GUP-So-5", "GUP-So-0.5", the thickness meter "ITU" and numerous others. The authors give data on the production of isotopes. At present, more than 90 radioactive, 170 stable isotopes, and more than 360 compounds marked with isotopes are being produced in the USSR. In 1958, Cobalt-60 with more than 190,000 Curie, Carbon-14 with 200 Curie, Phosphorus-32 with 1,100 Curie, Sulphur-35 with 900 Curie, Iodine-131 with 1,200 Curie, Gold-198 with 1,000 Curie, Iridium-192 with 800 Curie, Cesium-137 with 1,500 Curie,

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The Use of Radioactive Isotopes in the USSR SOV/25-58-12-8/40

Thulium-170 with 750 Curie were produced. More than 70 new radioactive and stable isotopes, and 140-160 compounds, will be produced in the future. There are 6 photos.

Card 4/4

USPENSKIY, D.D.; SAVITSKIY, P.S.; SINITSYN, V.I.; SHTAN<sup>1</sup>, A.S.; ANDREYENKO,  
Z.D., red.; MAZEL<sup>2</sup>, Ye.I., tekhn.red.

[Manual on dosimeters, radiometers, electronic and physical  
instruments, counter tubes, scintillation counters, and photo-  
electric multipliers] Spravochnik po dozimetricheskim, radio-  
metricheskim i elektronno-fizicheskim priboram, schetchikam,  
stintilliatoram i fotomnozhiteliam. Moskva, Izd-vo Glav.upr.  
po ispol'zovaniyu atomnoi energ., 1959. 252 p. (MIRA 12:5)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye po ispol'zovaniyu  
atomnoy energii.

(Nuclear counters)

GRABLEVSKIY, V.N.; KULISH, Ye.Ye.; MATYUSHINA, N.A.; POPOVA, G.L.;  
POTAPOV, S.P.; SAVITSKIY, P.S.; TEREKHOVA, V.N.; FRADKIN, G.M.;  
LABAZNOV, V.I., red.; VLASOVA, N.A., tekhn.red.

[Isotopes, radiation sources, and radioactive materials; a  
catalog] Izotopy, istochniki izlucheniia i radioaktivnye  
materialy; katalog. Sost. avtorskim kolektivom: V.N.Grablev-  
skii i dr. Moskva, Izd-vo Glav.uprav.po ispol'zovaniiu atomnoi  
energii pri Sovete Ministrov SSSR, 1959. 269 p. (MIRA 12:12)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye po ispol'zova-  
niyu atomnoy energii.

(Radioactive substances)

DA WITS K...  
P. 2.  
FRANCE      BOOK EXPLOITATION      SOV/2713

International Conference on the Peaceful Uses of Atomic Energy. 2nd,  
Geneva, 1958

Doklady sovetskikh uchenykh; polucheniye i primeneniye izotopov (Reports  
of Soviet Scientists; Production and Application of Isotopes) Moscow,  
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ing Member, USSR Academy of Sciences; Ed. (Inside book): Z.D. Andreyenko;  
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PURPOSE: This book is intended for scientists, engineers, physicians, and  
biologists engaged in the production and application of atomic energy to  
peaceful uses; for professors and graduate and nongraduate students of  
higher technical schools where nuclear science is taught; and for the  
general public interested in atomic science and technology.

COVERAGE: This is volume 6 of a 6-volume set of reports delivered by Soviet  
scientists at the Second International Conference on the Peaceful Uses of

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Atomic Energy held in Geneva from September 1 to 13, 1958. Volume 6 contains 32 reports on: 1) modern methods for the production of stable radioactive isotopes and their labeled compounds, 2) research results obtained with the aid of isotopes in the field of chemistry, metallurgy, machine building, and agriculture, and 3) dosimetry of ionizing radiation. Volume 6 was edited by: S.V. Lavinskiy, Candidate of Medical Sciences; V.N. Prusakov, Candidate of Chemical Sciences; and V.V. Sedov, Candidate of Medical Sciences. See Sov/2081 for titles of volumes of the set. References appear at the end of the articles.

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